

IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

1. (currently amended) A catalyst ~~Catalyst~~ body with one or more layer elements with cavities which are etched and through which streamable media can flow, such as pores or channels ~~thereby defined that~~ wherein the cavities are basically perpendicular to the surface.
2. (currently amended) The catalyst ~~Catalyst~~ body according to claim 1 ~~thereby defined that,~~ wherein the layer elements consist basically of silicon or silicon compound alloy.
3. (currently amended) The catalyst ~~Catalyst~~ body according to claim 1 ~~the said claims thereby defined that,~~ wherein the dimensions of the cavities perpendicular to the flow direction of the medium vary.
4. (currently amended) The catalyst ~~Catalyst~~ body according to claim 1 ~~the said claims thereby defined that,~~ wherein the surface of the cavities has a metallic coating.
5. (currently amended) The catalyst ~~Catalyst~~ body according to claim 1 ~~the said claims thereby defined that,~~ wherein the

inner surface of the cavities posses a catalytic active coating.

6. (currently amended) The catalyst ~~Catalyst~~ body according to claim 1 ~~the said claims thereby defined that,~~ wherein at least two of the layer elements have alignment marks.
7. (currently amended) The catalyst ~~Catalyst~~ body according to claim 1 ~~the said claims thereby defined that,~~ wherein the layer elements basically consist of electrically conducting material.
8. (currently amended) A method ~~Method~~ of fabrication of a catalyst body constructed from single layer elements with the following procedure steps:
 - etching of complete pores running through the substrate which basically run perpendicular to the layer surface
 - stacking of equally processed and etched elements on top of each other.
9. (currently amended) The method ~~Method~~ of fabrication according to claim 8 wherein the etching is performed by deep anodic or photo anodic etching.
10. (currently amended) The method ~~Method~~ of fabrication according to claim 8 where the etching is performed by a plasma etching process.

11. (currently amended) The method ~~Method~~ of fabrication according to claim 8 ~~the said claims 8-10 where,~~ wherein additional alignment marks are foreseen on each of the layer elements.
12. (currently amended) The method ~~Method~~ of fabrication according to claim 8 ~~the said claims 8-11 where,~~ wherein at least one surface is pre-structured by a photolithographic process.
13. (currently amended) The method ~~Method~~ of fabrication according to claim 8 ~~the said claims 8-12 where,~~ wherein the surfaces of the etched cavities are coated by a metallic layer.
14. (currently amended) The method ~~Method~~ of fabrication according to claim 8 ~~the said claims 8-13 where,~~ wherein the surfaces of the etched cavities are supplied with a catalytic active layer.
15. (currently amended) A catalytic ~~Catalytic~~ reactor with a housing including feed and output gas lines for the reactants and a catalyst body inside ~~thereby defined that,~~ wherein ~~it~~ the catalytic reactor has a catalyst body according to the claims 1-7 with one or more layer elements with cavities which are etched and through which

streamable media can flow, such as pores or channels wherein the cavities are basically perpendicular to the surface.

16. (currently amended) The catalytic ~~Catalytic~~ reactor according to claim 15 ~~thereby defined that~~ wherein it the catalytic reactor is divided into several segments each segment consisting of the said ~~described~~ catalyst body ~~according to claims 1-7.~~
17. (currently amended) A fuel ~~Fuel~~ cell system with a catalytic reactor as a reformer and a fuel cell ~~thereby defined that,~~ wherein it a fuel cell has a catalytic reactor ~~according to claims 15 or 16~~ with a housing including feed and output gas lines for the reactants and a catalyst body inside thereby defined that it has a catalyst body with one or more layer elements with cavities which are etched and through which streamable media can flow, such as pores or channels wherein the cavities are basically perpendicular to the surface.